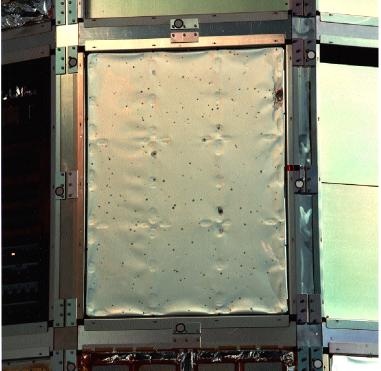
Acronyms and Abbreviations

Α		L	
AFSPC	Air Force Space Command	LDEF LEO	Long Duration Exposure Facility Low Earth Orbit
	С		
CCDS CFR	Charge Coupled Device System Code of Federal Regulations	MEO	M Medium Earth Orbit
COPUOS	United Nations Committee on the Peaceful Uses of Outer Space	MIT/LL ETS	Massachusetts Institute of Technology Lincoln Laboratory
	D		Experimental Test System
DOD	Department of Defense		N
DOC DOE	Department of Commerce Department of Energy	NASA	National Aeronautics and Space Administration
DOT	Department of Transportation	NASDA	National Space Development Agency of Japan
	E	NOAA	National Oceanic and Atmospheric Administration
ELV ESA	Expendable Launch Vehicle European Space Agency		P
Eureca EVA	European Retrievable Carrier Extravehicular Activity	PL/AMOS	Phillips Laboratory Air Force Maui
	F		Optical Station
FCC	Federal Communications		S
	Commission	SOCIT	Satellite Orbital Debris Characterization Impact Test
	G	SPADOC 4	Space Defense Operations Center, block 4
GEO GEODSS	Geosynchronous Earth Orbit Ground Electro-Optical Deep	SRM SSN	Solid Rocket Motor Space Surveillance Network
GLONASS	Space System Global Navigation Satellite System	STSC	COPUOS Scientific and Technical Subcommittee
GPS GTO	U.S. Global Positioning System Geosynchronous Transfer Orbit		U
I		USSPACECOM U.S. Space Command	
IADC	Inter-Agency Space Debris Coordination Committee		





The Long Duration Exposure Facility (LDEF) was deployed in orbit to measure the environment by exposing a number of different materials in a controlled manner so that the meteoroid and orbital debris too small to be measured remotely could be quantified and assessed. It was recovered after nearly six years in orbit and is a major source of data on the relative frequency of natural as opposed to man-made debris.

More than 32,000 impact craters visible to the unaided eye have been observed. The largest impact crater was 0.5 cm in diameter. Analysis indicates that approximately one-half of the larger craters were of orbital debris origin and one-half were meteoroids; nearly all of the smallest craters are due to orbital debris.

This one-square-meter panel of teflon thermal blanket contains a large number of hypervelocity-induced "pin holes," each surrounded by a larger darkened area. The darkened area is believed to be caused by the shock of the impact and possible reaction of the material to ultraviolet radiation.